

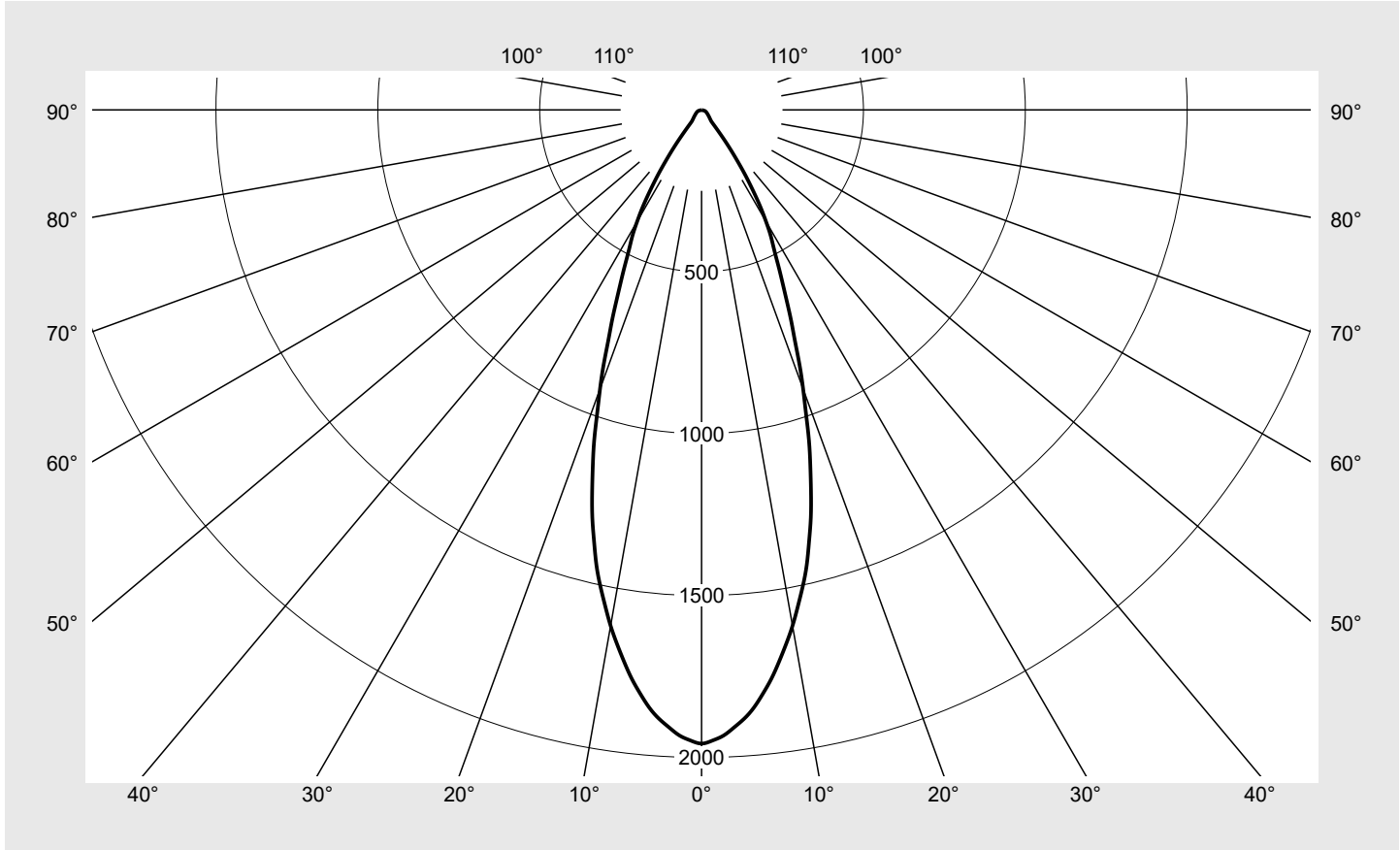


# Photometric test report

<b>Family</b> <b>Spot 31</b>	<b>Order number: 51SF14MAB4B</b> <b>EAN: 4058352721100</b>	<b>LP number</b> <b>59383_1</b>
	<b>Version</b> reflector, cover, polycarbonate, wide distribution <b>Lamps</b> LED 3000 K   CRI ≥ 90 <b>Controlgear</b> ECG Multilumen <b>Setting</b> factory setting: DIP-Step=14	<b>serial documentation</b> <b>20.01.2023</b>
	<b>Rated values</b> Net luminous flux = 4890 lm Power consumption = 40.0 W Luminous efficacy = 122.3 lm/W	

**Luminous intensity in cd/klm** C180-0 **Imax: 1957 cd/klm**



Classifications	
DIN 5040	A 7 0
CIE	N1=93 N2=97 N3=100 N4=100 N5=100

Luminaire light output ratios	
$\eta_{LB}$	100.0%
$\phi_u$	100.0%
$\phi_o$	0.0%

**Measurement conditions**  
 DIN EN 13032 and DIN 5032

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<b>Table of values for luminous intensities</b>	<b>Maximum luminous intensity</b>
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C-planes	0°	Phi-zone	Total Phi-zone
γ	Luminous intensity in cd/klm		Luminous flux in lm/klm
0°	1957.2	0.5	0.5
1°	1947.9	3.7	4.2
2°	1933.7	7.4	11.6
3°	1910.2	11.0	22.6
4°	1885.0	14.4	37.0
5°	1853.1	17.7	54.7
6°	1812.8	20.8	75.5
7°	1769.9	23.7	99.1
8°	1720.6	26.3	125.4
9°	1670.0	28.6	154.0
10°	1618.0	30.8	184.8
11°	1560.5	32.7	217.5
12°	1503.8	34.3	251.8
13°	1443.5	35.6	287.4
14°	1372.9	36.4	323.8
15°	1303.8	37.0	360.8
16°	1226.3	37.1	397.9
17°	1149.0	36.8	434.7
18°	1073.5	36.4	471.1
19°	990.1	35.4	506.4
20°	917.2	34.4	540.8
21°	845.5	33.2	574.1
22°	770.3	31.6	605.7
23°	709.0	30.4	636.1
24°	648.2	28.9	665.0
25°	594.2	27.5	692.5
26°	547.0	26.3	718.8
27°	503.0	25.0	743.9
28°	468.0	24.1	768.0
29°	436.1	23.2	791.2
30°	397.9	21.8	813.0
31°	360.0	20.3	833.3
32°	318.2	18.5	851.8
33°	275.9	16.5	868.3
34°	236.3	14.5	882.8
35°	195.2	12.3	895.1
36°	158.3	10.2	905.3
37°	123.4	8.1	913.4
38°	90.3	6.1	919.5
39°	65.5	4.5	924.0
40°	49.4	3.5	927.5
41°	44.2	3.2	930.7
42°	41.5	3.0	933.7
43°	38.8	2.9	936.6
44°	37.0	2.8	939.4
45°	35.2	2.7	942.2
46°	33.5	2.6	944.8

C-planes	0°	Phi-zone	Total Phi-zone
γ	Luminous intensity in cd/klm		Luminous flux in lm/klm
47°	31.9	2.6	947.4
48°	30.5	2.5	949.8
49°	29.1	2.4	952.3
50°	27.9	2.3	954.6
51°	26.6	2.3	956.9
52°	25.6	2.2	959.1
53°	24.6	2.2	961.2
54°	23.5	2.1	963.3
55°	22.7	2.0	965.4
56°	21.8	2.0	967.3
57°	21.0	1.9	969.3
58°	20.3	1.9	971.1
59°	19.5	1.8	973.0
60°	18.8	1.8	974.8
61°	18.2	1.7	976.5
62°	17.5	1.7	978.2
63°	16.9	1.7	979.9
64°	16.2	1.6	981.5
65°	15.6	1.6	983.0
66°	15.1	1.5	984.5
67°	14.5	1.5	986.0
68°	13.8	1.4	987.4
69°	13.2	1.3	988.7
70°	12.5	1.3	990.0
71°	11.9	1.2	991.3
72°	11.2	1.2	992.4
73°	10.5	1.1	993.5
74°	9.7	1.0	994.6
75°	8.8	0.9	995.5
76°	7.7	0.8	996.3
77°	6.2	0.7	997.0
78°	5.2	0.6	997.5
79°	4.6	0.5	998.0
80°	4.0	0.4	998.5
81°	3.5	0.4	998.8
82°	3.0	0.3	999.2
83°	2.4	0.3	999.4
84°	1.9	0.2	999.6
85°	1.5	0.2	999.8
86°	1.0	0.1	999.9
87°	0.6	0.1	1000.0
88°	0.2	0.0	1000.0
89°	0.1	0.0	1000.0
90°	0.1	0.0	1000.0

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UGR-Table	Standard room	sitEco
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Reflection factor of ceiling	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3	
Reflection factor of walls	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3	
Reflection factor of floor	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	
Room dimensions	View crosswise (C0)					View endwise (C90)					
x	y										
2H	2H	22.1	23.2	22.5	23.6	23.9	22.1	23.2	22.5	23.6	23.9
	3H	22.8	23.7	23.1	24.1	24.4	22.8	23.7	23.1	24.1	24.4
	4H	23.1	24.0	23.5	24.3	24.7	23.1	24.0	23.5	24.3	24.7
	6H	23.2	24.0	23.6	24.4	24.8	23.2	24.0	23.6	24.4	24.8
	8H	23.4	24.0	23.8	24.4	24.8	23.4	24.0	23.8	24.4	24.8
	12H	23.4	23.9	23.8	24.3	24.8	23.4	23.9	23.8	24.3	24.8
4H	2H	22.3	23.2	22.7	23.5	23.9	22.3	23.2	22.7	23.5	23.9
	3H	23.1	23.8	23.5	24.2	24.6	23.1	23.8	23.5	24.2	24.6
	4H	23.5	24.2	24.0	24.6	25.0	23.5	24.2	24.0	24.6	25.0
	6H	23.7	24.3	24.2	24.7	25.2	23.7	24.3	24.2	24.7	25.2
	8H	23.8	24.3	24.3	24.7	25.2	23.8	24.3	24.3	24.7	25.2
	12H	23.8	24.2	24.3	24.7	25.2	23.8	24.2	24.3	24.7	25.2
8H	4H	23.6	24.1	24.1	24.6	25.1	23.6	24.1	24.1	24.6	25.1
	6H	23.9	24.3	24.4	24.7	25.3	23.9	24.3	24.4	24.7	25.3
	8H	23.9	24.3	24.5	24.8	25.3	23.9	24.3	24.5	24.8	25.3
	12H	24.0	24.3	24.5	24.8	25.3	24.0	24.3	24.5	24.8	25.3
12H	4H	23.6	24.0	24.1	24.5	25.0	23.6	24.0	24.1	24.5	25.0
	6H	23.9	24.2	24.4	24.7	25.2	23.9	24.2	24.4	24.7	25.2
	8H	24.0	24.2	24.5	24.7	25.3	24.0	24.2	24.5	24.7	25.3

Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm: D = 79
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C-planes	0°
$\gamma$	Luminance in cd/m <sup>2</sup>
45°	49605.4
50°	43243.9
55°	39475.1
60°	37534.4
65°	36928.7
70°	36539.3
75°	33992.9
80°	22997.5
85°	16677.4

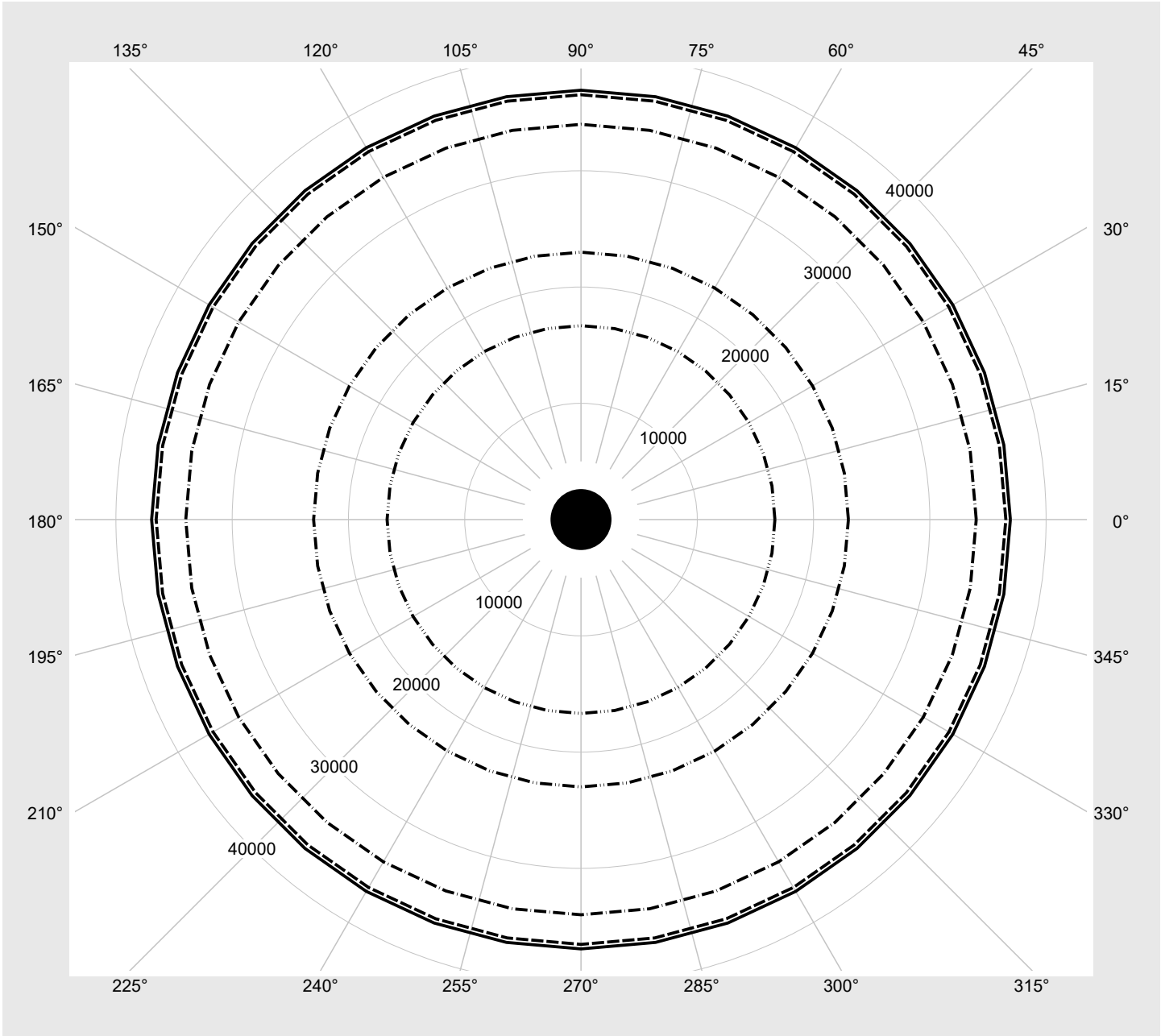
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**Luminance values in cd/m<sup>2</sup>**

$\gamma$  65°  
   $\gamma$  70°  
   $\gamma$  75°  
   $\gamma$  80°  
   $\gamma$  85°



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<b>Multilumen Table</b>	environmental temperature: 25°C	<b>sITeco</b>
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DIP-Step	Switch Setting				Luminous flux [lm]	Power consumption [W]
	1	2	3	4		
15	ON	ON	ON	ON	5090	42.4
14	ON	ON	ON	OFF	4890	40.0
13	ON	ON	OFF	ON	4690	37.8
12	ON	ON	OFF	OFF	4390	35.4
11	ON	OFF	ON	ON	4270	33.7
10	ON	OFF	ON	OFF	4060	31.9
9	ON	OFF	OFF	ON	3810	29.6
8	ON	OFF	OFF	OFF	3610	27.6
7	OFF	ON	ON	ON	3400	25.9
6	OFF	ON	ON	OFF	3160	23.9
5	OFF	ON	OFF	ON	2930	21.9
4	OFF	ON	OFF	OFF	2690	20.0
3	OFF	OFF	ON	ON	2420	17.8
2	OFF	OFF	ON	OFF	2170	15.9
1	OFF	OFF	OFF	ON	1820	13.8
0	OFF	OFF	OFF	OFF	1570	12.0